

**COMPUTER PROGRAMMING LANGUAGE
STATEMENT BUILDING AND INFORMATION TOOL**

ABSTRACT

5 An intelligent real time tool to assist a computer programmer during the
writing and/or maintenance of a computer program. The tool generates assist
windows that contain program related information that the programmer can use
to construct a programming language statement and/or to obtain real time
information about a programming language statement. An assist window can be
10 automatically displayed as determined by the tool itself, and/or manually
displayed on demand in response to a user input command. An assist window
displays two general categories of information including but not limited to
selection menu information based on a partial compilation of all programming
language statements, and informational displays based on a partial compilation
15 and a reverse parse of an immediate programming language statement. The
statement generating tool assist windows are non-intrusive to programmer input
and can be ignored by the programmer by merely continuing to type an
immediate programming language statement without interacting with the assist
windows that are proximate the programming language statement being
20 constructed by the programmer.